

# Xedge 6160 Chassis

## Versatile 5-Slot Chassis System for MultiService Applications



Figure 1: Xedge 6160 Chassis System

### Xedge 6160 Chassis

The Xedge 6160 is a compact, standalone 5-slot chassis ideal for central offices, remote offices, and cell sites. The chassis may be deployed as a standalone desktop unit, front mounted in 19-inch rack/cabinet, or mid mounted in 23-inch rack/cabinet.

The front panel provides easy installation for one Xedge switch fabric module and up to four Xedge slot controllers of any type:

- Xedge XM, XS or XH Switch Fabric Module
- Xedge cell controllers (ACP, ACS or ECC)
- Xedge adaptation controllers (CE, FRC, CHFRC, ETH, VSM)
- Xedge packet controllers (PCX, PCE, ISG2, PCL, etc.)

The Xedge 6160 rear panel provides connectors for power sources, management, grounding and alarm connections. One DB-25F connector is used for contact alarms. A shorting bar located on the rear of the chassis provide for the connection, separation, or isolation of frame and signal grounds as required.

### Supported LIMs, SMMs

Rear panel slots accommodate one or two Xedge line interface modules (LIMs) for each installed slot controller. A dedicated rear panel slot is also provided for one System Management Module (SMM) which has two DB-9 management ports (Manager and Auxilliary) that provide local access via an asynchronous terminal.

### Features & Benefits

- Compact, modular chassis installs in an open or standard 19-inch rack or cabinet, flush-mount or mid-mount, or as a standalone desktop unit.
- Accommodates one switch fabric and up to four single or double width slot controllers for multiservice applications.
- Modules can be installed or extracted without powering down the shelf (hot-swappable).
- Rear panel slots accommodate one or two Xedge line interface modules for each installed slot controller.
- Air flow is provided by six fans, each delivering 55 cubic feet per minute (cfm).
- Supports environmental status and alarms control.
- Provide a signal and chassis ground connection point.

### Chassis Power

The Xedge 6160 chassis is available in an AC or DC model. The AC-version uses one or two GPS-16A autoranging power supplies that automatically adapt to AC power inputs ranging from 90 to 264VAC.

The DC version uses one or two DPS-16A autoranging power supplies that automatically adapt to DC power inputs ranging from -42 to -70 VDC.

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## Physical Specifications

### Dimensions

Height: 4.38 in. (11.1 cm)  
 Width: 17.5 in. (44.4 cm)  
 Depth: 19 in. (48.3 cm)

### Module Capacity

Dedicated front slot accepts one switch fabric module (XM, XS or XH)

Factory-installed Link Personality Modules (LPMs):  
 LPM-1, LPM-2, LPM-3, LPM-4, LPM-5, LPM-6, LPM-CE

Four front slots accept single-width or double-width Xedge slot controllers with 1 or two compatible LIMs per controller.

Single-width slot controller modules:  
 ISG2, VSM, CE, FRC, CHFRC, ETH, ECC, ACP, ACS

Dual-width slot controller modules:  
 PCX/PCX2, PCE, PCL

### Module/LIM Applications

The Slot Controller/LPM/LIM Bundle installed at the factory supports a variety of LIM applications:

- LPM-1: Uses two Utopia LIMs
- LPM-2: Uses one Utopia LIM (LIM1) and one SERDES LIM (LIM2)
- LPM-3: Uses one Serial LIM (LIM1) and one SERDES LIM (LIM2)
- LPM-4: Uses two SERDES LIMs
- LPM-5: Uses two Serial LIMs
- LPM-6: Uses one Serial LIM (LIM1) and one Utopia LIM (LIM2)
- LPM-CE: Uses two selected Serial LIMs (with PCE only)

Serial LIMs	Utopia LIMs	SERDES LIMs
DS1-2CS	DSX1-IMA	OC-N/STM-N
DS1-4CS	E1-IMA	AVM (Voice)
DS3-2C	155M-2	T1/E1 MP16
E1-2CS	155I-2	T1/E1 HDCC
E1-4CS	155L-2	
E3-2C	155M-APS	
LCE-16	155I-APS	
ASIO	155L-APS	
ASIO-HSSI (DCE)	155E-2	

### Port Capacity

All Xedge chassis types can support a variety of controller/LIM combinations. The following matrix provides a simplified indication of each chassis' maximum port capacity by interface type, assuming PCE/ASIO, PCE/DS3-2C, PCX-2/T1/E1 MP16, and PCX-2/LCE-16.

Chassis Type	Redundant Power	Redundant SW Fabric	Redundant Slot-0	Maximum DS1 Ports	Maximum DS3 Ports	Maximum Serial Ports	Maximum Subrate Ports
Xedge 6002	NO	N/A	N/A	32	2	8	32
Xedge 6160	2 AC or 2 DC	1	NO	64	4	16	16
Xedge 6280	4 AC or 4 DC	2	YES	96	6	24	96
Xedge 6640	4 AC	2	YES	224	14	56	224
Xedge 6645	4 DC	2	YES	224	14	56	224

## Environmental Specifications

### Non-Operating

Temperature -40 deg. to 158 deg. F (-40 deg. to 70 deg. C)  
 Altitude: 0 ft. to +40,000 ft. (0 m to +12191 m)

### Operating

32 deg. to 122 deg. F (0 deg. to 50 deg. C)  
 Relative Humidity: 5% - 95% non-condensing  
 Altitude: 0 ft. to +10,000 ft. (0 m to +3048 m)

## Power Specifications

### Xedge 6160 AC Version (P/N 010B203-001)

Power Supply P/N: 035B011-002  
 Capacity: One or two power supplies  
 Input Voltage Range: 90 to 264 VAC  
 Input Frequency: 50 to 60 Hz  
 Maximum Power Consumption: 350 W (with one power supply)  
 Service Current Requirement: 15A  
 Fuse Rating: 6.3A, 250 VAC, each power supply  
 Heat Dissipation: 1,195 BTU/hr, maximum

### Xedge 6160 DC Version (P/N 010B204-001)

Power Supply P/N: 041B011-001  
 Capacity: One or two power supplies  
 Input Voltage Range: - 42 to - 70 VDC  
 Maximum Power Consumption: 350 W (with one power supply)  
 Fuse Rating: 10A, 250 VDC, each power supply  
 Heat Dissipation: 1,195 BTU/hr, maximum

## Compliance & Compatibility

CISPR 22 Class A, FCC 15 Class A, EN55022, EN55024  
 UL Listed (60950)  
 c-UL Listed (CSA C22.2 #950)  
 TUV licensed (EN60950)  
 CE Mark  
 Quality Assurance: ISO 9001: 2000 Certified